

SEQUENCE LISTING

<110> CHISSO CORPORATION

<120> Fluorescence proteins

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<151> 2003-08-12

<150> JP 2004/59611

<151> 2004-03-03

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 189

<212> PRT

<213> Aequorea aequorea

<220>

<223> Inventor: Inouye, Satoshi

<400> 1

Val Lys Leu Thr Ser Asp Phe Asp Asn Pro Arg Trp Ile Gly Arg His

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Lys His Met Phe Asn Phe Leu Asp Val Asn His Asn Gly Lys Ile Ser
 20 25 30

Leu Asp Glu Met Val Tyr Lys Ala Ser Asp Ile Val Ile Asn Asn Leu
 35 40 45

Gly Ala Thr Pro Glu Gln Ala Lys Arg His Lys Asp Ala Val Glu Ala
 50 55 60

Phe Phe Gly Gly Ala Gly Met Lys Tyr Gly Val Glu Thr Asp Trp Pro
65 70 75 80

Ala Tyr Ile Glu Gly Trp Lys Lys Leu Ala Thr Asp Glu Leu Glu Lys
 85 90 95

Tyr Ala Lys Asn Glu Pro Thr Leu Ile Arg Ile Trp Gly Asp Ala Leu
 100 105 110

Phe Asp Ile Val Asp Lys Asp Gln Asn Gly Ala Ile Thr Leu Asp Glu
 115 120 125

Trp Lys Ala Tyr Thr Lys Ala Ala Gly Ile Ile Gln Ser Ser Glu Asp

130

135

140

Cys Glu Glu Thr Phe Arg Val Cys Asp Ile Asp Glu Ser Gly Gln Leu

145

150

155

160

Asp Val Asp Glu Met Thr Arg Gln His Leu Gly Phe Trp Tyr Thr Met

165

170

175

Asp Pro Ala Cys Glu Lys Leu Tyr Gly Gly Ala Val Pro

180

185

<210> 2

<211> 195

<212> PRT

<213> Obelia longissima

<400> 2

Met Ser Ser Lys Tyr Ala Val Lys Leu Lys Thr Asp Phe Asp Asn Pro

1

5

10

15

Arg Trp Ile Lys Arg His Lys His Met Phe Asp Phe Leu Asp Ile Asn

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25

30

Gly Asn Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys Ala Ser Asp

35

40

45

Asp Ile Cys Ala Lys Leu Glu Ala Thr Pro Glu Gln Thr Lys Arg His

50

55

60

Gln Val Cys Val Glu Ala Phe Phe Arg Gly Cys Gly Met Glu Tyr Gly

65

70

75

80

Lys Glu Ile Ala Phe Pro Gln Phe Leu Asp Gly Trp Lys Gln Leu Ala

85

90

95

Thr Ser Glu Leu Lys Lys Trp Ala Arg Asn Glu Pro Thr Leu Ile Arg

100

105

110

Glu Trp Gly Asp Ala Val Phe Asp Ile Phe Asp Lys Asp Gly Ser Gly

115

120

125

Thr Ile Thr Leu Asp Glu Trp Lys Ala Tyr Gly Lys Ile Ser Gly Ile

130

135

140

Ser Pro Ser Gln Glu Asp Cys Glu Ala Thr Phe Arg His Cys Asp Leu

145

150

155

160

Asp Asn Ser Gly Asp Leu Asp Val Asp Glu Met Thr Arg Gln His Leu

165

170

175

Gly Phe Trp Tyr Thr Leu Asp Pro Glu Ala Asp Gly Leu Tyr Gly Asn

180

185

190

Gly Val Pro

195

<210> 3

<211> 198

<212> PRT

<213> Clytia gregarium

<400> 3

Met Ala Asp Thr Ala Ser Lys Tyr Ala Val Lys Leu Arg Pro Asn Phe

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15

Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu

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25

30

Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys

35

40

45

Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr

50

55

60

Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met

65

70

75

80

Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys

85

90

95

Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser

100

105

110

Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp

115

120

125

Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile

130

135

140

Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His

145

150

155

160

Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg

165

170

175

Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu

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185

190

Tyr Gly Asn Phe Val Pro

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<210> 4

<211> 198

<212> PRT

<213> Mitrocoma cellularia

<400> 4

Met Ser Met Gly Ser Arg Tyr Ala Val Lys Leu Thr Thr Asp Phe Asp

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Asn Pro Lys Trp Ile Ala Arg His Lys His Met Phe Asn Phe Leu Asp
20 25 30

Ile Asn Ser Asn Gly Gln Ile Asn Leu Asn Glu Met Val His Lys Ala
35 40 45

Ser Asn Ile Ile Cys Lys Lys Leu Gly Ala Thr Glu Glu Gln Thr Lys
50 55 60

Arg His Gln Lys Cys Val Glu Asp Phe Phe Gly Gly Ala Gly Leu Glu
65 70 75 80

Tyr Asp Lys Asp Thr Thr Trp Pro Glu Tyr Ile Glu Gly Trp Lys Arg
85 90 95

Leu Ala Lys Thr Glu Leu Glu Arg His Ser Lys Asn Gln Val Thr Leu
100 105 110

Ile Arg Leu Trp Gly Asp Ala Leu Phe Asp Ile Ile Asp Lys Asp Arg
115 120 125

Asn Gly Ser Val Ser Leu Asp Glu Trp Ile Gln Tyr Thr His Cys Ala

130

135

140

Gly Ile Gln Gln Ser Arg Gly Gln Cys Glu Ala Thr Phe Ala His Cys

145

150

155

160

Asp Leu Asp Gly Asp Gly Lys Leu Asp Val Asp Glu Met Thr Arg Gln

165

170

175

His Leu Gly Phe Trp Tyr Ser Val Asp Pro Thr Cys Glu Gly Leu Tyr

180

185

190

Gly Gly Ala Val Pro Tyr

195